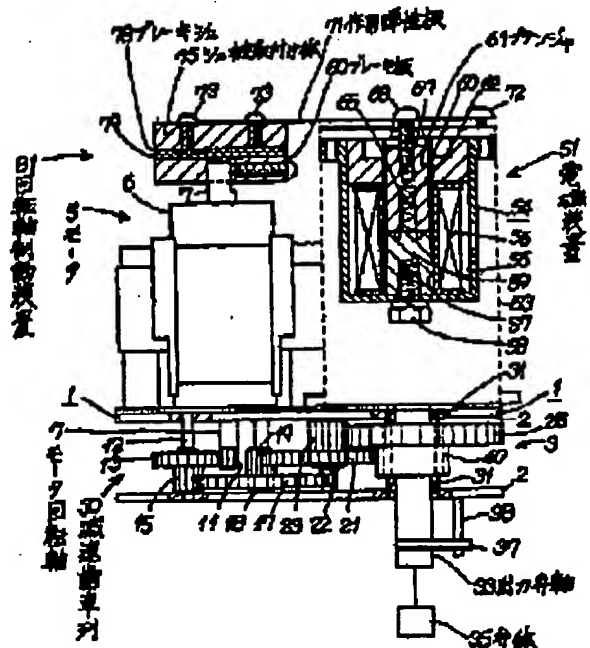


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 APPLICANT : NICHIDEN KOGYO KK;
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 TITLE : MOTOR-OPERATED VALVE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a motor-operated valve which can be manufactured compact at a low cost, and can save the power g sufficiently.

SOLUTION: An output valve stem 33 rotated in one direction depending on the drive of a motor 5 is provided, and a valve disc 35 is connected to the front end of the output valve stem 33, while a motor rotation shaft 7 is connected to the middle part of the output valve stem 33 through a reduction gear train 30. A coil spring to accumulate a force depending on the rotation in one direction of the output valve stem 33, and to rotate the output valve stem 33 reversely in the other direction by this accumulated force is provided. An electromagnetic device 51 to carry out an exciting operation when the motor 5 is stopped by a limit switch, and a friction brake 81 to brake the motor rotation shaft 7 by operating depending on the exciting operation of the electromagnetic device 51, are provided. Since the rotation of the output valve stem 33 by the accumulated force from the coil spring is limited by braking the motor rotation shaft 7 by the friction brake 81, the braking can be carried out by a relatively small force, and the electromagnetic device can be made in a small size.

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